

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application. Please cancel claims 8 and 16 without prejudice and amend claims 6 and 14 as follows:

**LISTING OF CLAIMS:**

1. (Previously Presented) A digital camera that records a captured image as digital data and that interfaces with an external device, said digital camera comprising:

an image pickup device equipped with color filters that are located so as to correspond to individual pixels and that perform color separation of the image signals;

an A/D converter that converts the image signals obtained by said image pickup device into digital image data;

a recording device that records, together with said digital image data, data regarding the alignment of the color filters located so as to correspond to individual pixels;

a data processor that, after performing color separation of said digital image data into pixel data of different colors based on said recorded filter alignment data, interpolates for missing pixels for each color using a first process; and

a display device that reproduces the image comprising complete pixel data of different colors that is obtained from the data processor,

wherein said external device interpolates for missing pixels for each color using a second process which is different from the first process.

2. (Original) A digital camera as claimed in Claim 1, wherein said recording device includes a memory card that is detachable from said digital camera.

3. (Previously Presented) A digital camera as claimed in Claim 1, said digital camera having an output unit that outputs the digital image data and filter alignment data to the external device.

4. (Previously Presented) A digital camera that records an image as digital image data, said digital camera comprising:

an image pickup device equipped with color filters that are located so as to correspond to individual pixels and that perform color separation of the image signals;

an A/D converter that converts the image signals obtained by said image pickup device into digital image data;

a recording device that records, together with said digital image data, data regarding the alignment of the color filters located so as to correspond to individual pixels;

a data processor that, after performing color separation of said digital image data into pixel data of different colors based on said recorded filter alignment data, interpolates for missing pixels for each color to produce complete pixel data for each color using a first process; and

an output unit that outputs to an external device the complete pixel data of each color obtained from said data processor together with the filter alignment data recorded on said recording device,

wherein the external device interpolates for missing pixels for each color using an second process which is different from said first process.

5. (Original) A digital camera as claimed in Claim 4, said digital camera having a display device that reproduces the image comprising the complete pixel data of each color that is obtained from said data processor.

6. (Currently Amended) A method for recording and displaying an image, comprising the steps of:

sensing an image with an image sensor having an array of pixels, where each pixel generates data relating to one of a plurality of colors;

simultaneously storing the data generated by the individual pixels of the image sensor and information which describes the colors that are respectively associated with the individual pixels in said array at a first site;

performing a first interpolation of the stored data at said first site in accordance with said information to produce a first set of complete color data;

transmitting the stored data and the stored information said first set of complete color data from said first site to a second site;

interpolating ~~reinterpolating~~ said first set of complete color data at said second site in accordance with said stored information using a different interpolation process to generate a second set of complete color data for the individual pixels; and

reproducing the image in accordance with the second set of complete color data.

7. (Original) The method of claim 6 wherein each of said pixels in the image sensor generates data relating to one of three colors, and said complete color data comprises a combination of all three colors for any individual pixel.

8. (Canceled)

9. (Original) The method of claim 6 further including the step of compressing the image data at said first site prior to transmitting it to said second site.

10. (Previously Presented) A digital camera that records a captured image as digital data and that interfaces with an external device, said digital camera comprising:

an image pickup device having individual pixels that sense different respective components of an image;

an A/D converter that converts image signals produced by said image pickup device into digital image data;

a recording device that records, together with said digital image data, data regarding the arrangement of said individual pixels of the image pickup device relative to said different components;

a data processor that performs separation of said digital image data into pixel data of different components based on said recorded pixel arrangement data, and interpolates for missing pixels for each component using a first process; and

a display device that reproduces the image comprising complete pixel data of different components that is obtained from the data processor;

wherein the external device interpolates for missing pixels for each component using a second process different from the first process.

11. (Original) A digital camera as claimed in Claim 10, wherein said recording device includes a memory card that is detachable from said digital camera.

12. (Previously Presented) A digital camera as claimed in Claim 10, said digital camera having an output unit that outputs the digital image data and pixel arrangement data to the external device.

13. (Previously Presented) A digital camera that records an image as digital image data, said digital camera comprising:

an image pickup device having individual pixels that sense different respective components of an image;

an A/D converter that converts image signals produced by said image pickup device into digital image data;

a recording device that records, together with said digital image data, data regarding the arrangement of said individual pixels of the image pickup device relative to said different components;

a data processor that performs separation of said digital image data into pixel data of different components based on said recorded pixel arrangement data, and interpolates for missing pixels for each components to produce complete pixel data for each component using a first process; and

an output unit that outputs to an external device the complete pixel data of each component obtained from said data processor together with the pixel arrangement data recorded on said recording device;

wherein the external device interpolates for missing pixels for each component using a second process different from the first process.

14. (Currently Amended) A method for recording and displaying an image, comprising the steps of:

sensing an image with an image sensor having an array of pixels, where each pixel generates data relating to one of a plurality of different components of an image;

simultaneously storing the data generated by the individual pixels of the image sensor and information which describes the arrangement of the individual pixels in said array, relative to said different components, at a first site;

performing a first interpolation of the stored data at said first site, in accordance with said information, to produce a first set of complete image data;

transmitting the stored data and the stored information the first complete set of image data from said first site to a second site;

interpolating reinterpolating said first set of complete image data at said second site in accordance with said stored information using a different interpolation

process to generate a second set of complete image data for each of the individual pixels; and

reproducing the image in accordance with the second set of complete image data.

15. (Original) The method of claim 14 wherein each of said pixels in the image sensor generates data relating to one of a plurality of colors, and said complete image data comprises a combination of said plurality of colors for each individual pixel.

16. (Canceled)

17. (Previously Presented) A digital camera as claimed in claim 1, wherein said data processor controls said digital camera.

18. (Previously Presented) A digital camera as claimed in claim 1, wherein said recording device simultaneously records said digital image data and said data regarding alignment of the colors filter.

19. (Previously Presented) A digital camera as claimed in claim 10, wherein said data processor controls said digital camera.

20. (Previously Presented) A digital camera as claimed in claim 10,  
wherein said recording device simultaneously records said digital image data and  
said data regarding alignment of the colors filter.